

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE FACTORS FOR BUSINESS: BUSINESS, ENERGY, ENVIRONMENT AND SUSTAINABILITY, BS

The Concentration/Major in Environmental, Social, and Governance Factors for Business (ESGB) is designed to provide in-depth foundations for those interested in the complex relationships between business and the natural environment and business and society more broadly, including management of environmental, social, and governance risks and opportunities, the business and economics of energy, and the ways in which firms incorporate ESG factors into their governance. There is a strong need for a new generation of expert business leaders who understand the rapidly evolving trends in business models, technology, regulation, and financing with implications for the environment and society as a whole. Students choosing the ESGB Concentration/Major are therefore ideally suited for the ever-expanding set of careers in many fields. Relevant courses are offered by departments including Accounting, Business Economics and Public Policy, Finance, Legal Studies and Business Ethics, Management, Marketing, and Operations Information and Decisions. This Concentration/Major is jointly administered by the Business, Economics and Public Policy Department, the Legal Studies and Business Ethics Department, and the Management Department. The Faculty Advisors to this Concentration/Major are Professors Arthur van Benthem (BEPP), Vit Henisz (MGMT) and Sarah Light (LGST). Questions regarding this Concentration/Major should be directed in the first instance to Sarah Jane McAffrey.

For more information: <https://esg.wharton.upenn.edu/students/esg-concentration/>

Environmental, Social, and Governance Factors for Business - Business, Energy, Environment and Sustainability Track

Code	Title	Course Units
	Undergraduate Students must take four credit units from the following list of courses:	4
ACCT/BEPP 2640	Climate and Financial Markets	
BEPP/OIDD 2610	Risk Analysis and Environmental Management	
BEPP/OIDD 2630	Environmental & Energy Economics and Policy	
FNCE 2560	Energy Finance	
LGST 2150	Environmental Management: Law & Policy	
LGST 2600	Climate & Environmental Leadership in Action: Building a Sustainable Future (by application)	
MGMT 8970	Global Modular Course A (on Sustainability; in Germany, by application)	

OIDD 5250 Thinking with Models: Business Analytics for Energy and Sustainability

Note: For both undergraduates and MBA students especially interested in ESG analytics, we note that while the STAT Department does not have courses on this list that count toward the 4 required credit units for the concentration/major, the following courses may be of special interest:

STAT 4100 Data Collection and Acquisition: Strategies and Platforms

STAT 4220 Predictive Analytics for Business

STAT 4230 Applied Machine Learning in Business

STAT 4240 Text Analytics

STAT 4350 Forecasting Methods for Management

STAT 4420 Introduction to Bayesian Data Analysis

STAT 4700 Data Analytics and Statistical Computing

STAT 4710 Modern Data Mining

STAT 4750 Sample Survey Design

STAT 4770 Introduction to Python for Data Science

Other Wharton Requirements	33
Total Course Units	37

Other Wharton Requirements

Code	Title	Course Units
First-Year Foundations		
BEPP 1000	Introductory Economics for Business Students ¹	1
MATH 1400	Calculus, Part I or MATH 1100 Calculus for Wharton Students	1
<i>Writing</i>		
	Critical Writing Seminar	1
Business		
<i>Business Breadth (non-concentration courses)</i>		3
<i>Leadership Journey</i>		
WH 1010	Business and You	0.5
WH 2010	Business Communication for Impact	0.5
MGMT 3010	Teamwork and Interpersonal Influence	0.5
	Capstone Course/Project	0.5
<i>Fundamentals</i>		
ACCT 1010	Accounting and Financial Reporting	1
ACCT 1020	Strategic Cost Analysis	1
BEPP 2500	Managerial Economics	1
FNCE 1000	Corporate Finance	1
FNCE 1010	Monetary Economics and the Global Economy	1
LGST 1000	Ethics and Social Responsibility or LGST 1010 Law and Social Values	1
MKTG 1010	Introduction to Marketing	1
OIDD 1010	An Introduction to Operations, Information and Decisions	1
STAT 1010	Introductory Business Statistics	1
STAT 1020	Introductory Business Statistics	1
<i>Global Economy, Business & Society</i>		

One course unit required	1
<i>Technology, Innovation & Analytics</i>	
One course unit required	1
Liberal Arts & Sciences	
<i>Foreign Language</i>	1
Second semester-level course or equivalent required	1
<i>Humanities</i>	
At least one course unit required	1
<i>Natural Science, Math & Engineering</i>	
At least one course unit required	1
<i>Social Science</i>	
At least one course unit required	1
<i>Cross-Cultural Perspectives</i>	
Three course units required ²	3
Unrestricted Electives	
Five course units required	5
Total Course Units	33

¹ For students who take ECON 0100 Introduction to Micro Economics and ECON 0200 Introductory Economics: Macro in place of BEPP 1000 Introductory Economics for Business Students of these courses can be slotted for BEPP 1000 on the worksheet. The second course may be used to fulfill a General Education Distribution or Unrestricted Elective requirement.

² Two can double-count as Humanities; Natural Science, Math & Engineering; Social Science; or Flex Gen Ed.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.
